

**Flood Control Project Maintenance  
Levee Inspections**

**Maintenance Issue Types Only, Levee Inspection Report By Mile - Fall 2016**

**\*\* SBFCA currently has operation and maintenance obligations during project construction and closeout.**

**Sutter Maintenance Yard Maintenance Area 0007**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	09/07/2016 09/08/2016	Sterling York

LM Start		Rating **	A	Issue No.	1
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0007_01_s _ 2013_1				
Comment Code					
Inspector Comment					
There will be new O&M manuals when the levee is turned back over to the LMA after construction is complete. The O&M manuals are located at the Sutter Maintenance Yard.					

No Photos

LM Start		Rating **	A	Issue No.	3
LM End		Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0007_01_s _ 2013_3				
Comment Code					
Inspector Comment					
Emergency supplies and equipment are stored at the Sutter Maintenance Yard.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	09/07/2016 09/08/2016	Sterling York

LM Start		Rating **	A	Issue No.	4	
LM End		Issue Type +	Ma	Location *	CR	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Flood Preparedness & Training				°	
					°	
DWR ID	DWR_MA0007_01_s_2013_4					
Comment Code						
Inspector Comment						
Sutter Maintenance Yard employees attend the annual Flood Fight class put on by DWR inspector Bob Duffy.						

No Photos

LM Start	0.03	Rating **	M	Issue No.	42
LM End	1.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.311297 °	39.334365 °
				-121.637490 °	-121.633975 °
DWR ID	DWR_MA0007_01_s_2012_42				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion along landward levee slope due to agricultural ditch.					

Photo 1 of 2 : FA\_2016\_MA0007\_200\_42\_20160906\_00006.jpg



This photo was taken from the levee crown facing north looking at the erosion along the landward levee slope due to an agricultural ditch. Spring 2014.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Feather River	Right	11.90	09/07/2016 09/08/2016	Sterling York

LM Start	0.03	Rating **	M	Issue No.	42 (cont)
LM End	1.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.311297°	39.334365°
				-121.637490°	-121.633975°
DWR ID	DWR_MA0007_01_s_2012_42				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Erosion along landward levee slope due to agricultural ditch.					

Photo 2 of 2 : FA\_2016\_MA0007\_200\_42\_20160906\_00007.jpg



Agricultural ditch landside slope and toe.

LM Start	0.31	Rating **	N	Issue No.	69
LM End	0.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.314991 °	39.315693 °
				-121.635038 °	-121.634459 °
DWR ID	DWR_MA0007_01_s_2016_69				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
Several tree stumps at levee toe.					

Photo 1 of 1 : FA\_2016\_MA0007\_200\_69\_20160912\_00125.jpg



View looking downstream of several tree stumps at the levee toe on the waterside.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
U : Unacceptable                  A/W : Acceptable but Monitor & Maintain

**+ Issue Type**

Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	09/07/2016 09/08/2016	Sterling York

LM Start	0.44	Rating **	U	Issue No.	72
LM End	0.44	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.316527 °	39.316527 °
				-121.633800 °	-121.633800 °
DWR ID	DWR_MA0007_01_f_2016_72				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					
This stump is next to the canal on the landside and is decomposing and needs to be removed.					

Photo 1 of 1 : FA\_2016\_MA0007\_200\_72\_20160923\_00126.jpg



View of a stump on the landside slope looking downstream. This stump is next to the canal on the landside and is decomposing and needs to be removed.

LM Start	0.56	Rating **	M	Issue No.	68
LM End	0.56	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.317974 °	39.317974 °
				-121.632542 °	-121.632542 °
DWR ID	DWR_MA0007_01_s_2016_68				
Comment Code					
E1 : Note and monitor erosion site.					
Inspector Comment					
Eroding slope due to irrigation ditch on landside slope, looking downstream.					

Photo 1 of 1 : FA\_2016\_MA0007\_200\_68\_20160912\_00124.jpg



View of eroding slope due to irrigation ditch on landside slope, looking downstream.

\* Location  
LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

\*\* Rating  
A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
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+ Issue Type  
Ma : Maintenance Deficiency  
Ob : Design & System Obsolescence  
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	09/07/2016 09/08/2016	Sterling York

LM Start	0.92	Rating **	A/W	Issue No.	67
LM End	0.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.323118°	39.323118°
				-121.632205°	-121.632205°
DWR ID	DWR_MA0007_01_s_2016_67				
Comment Code					
V2 : Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comment					

Photo 1 of 1 : FA\_2016\_MA0007\_200\_67\_20160906\_00020.jpg



View of landside toe vegetation looking downstream.

LM Start	1.00	Rating **	M	Issue No.	71
LM End	1.12	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.324172 °	39.325938 °
				-121.631792 °	-121.631853 °
DWR ID	DWR_MA0007_01_f_2016_71				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Waterside annual grasses that need to be maintained.					

Photo 1 of 1 : FA\_2016\_MA0007\_200\_71\_20160912\_00123.jpg



View of waterside annual grasses that need to be maintained. Looking downstream.

**\* Location**

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CR : Crown

**\*\* Rating**

A : Acceptable                      N : Not Inspected/Rated  
M : Minimally Acceptable        C : Corrected  
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**+ Issue Type**

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En : Enforcement



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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	09/07/2016 09/08/2016	Sterling York

LM Start	1.14	Rating **	A	Issue No.	38
LM End	10.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.326177°	39.426842°
				-121.631967°	-121.642087°
DWR ID	DWR_MA0007_01_f_2016_38				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintained annual grasses.					

Photo 1 of 1 : FA\_2016\_MA0007\_200\_38\_20160912\_00122.jpg



View looking downstream of maintained annual grasses.

LM Start	1.14	Rating **	A	Issue No.	37
LM End	10.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.326177 °	39.426843 °
				-121.631968 °	-121.642087 °
DWR ID	DWR_MA0007_01_f_2016_37				
Comment Code					
V1 : Control annual grass and weeds on the levee slopes and easements.					
Inspector Comment					
Maintained annual grasses.					

Photo 1 of 1 : FA\_2016\_MA0007\_200\_37\_20160912\_00121.jpg



View looking downstream of maintained annual grasses.

**\* Location**

LS : Land Side    N/A : Not Applicable  
WS : Water Side  
CR : Crown

**\*\* Rating**

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	09/07/2016 09/08/2016	Sterling York

LM Start	1.55	Rating **	M	Issue No.	2
LM End	1.71	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.332000 °	39.334240 °
				-121.633178 °	-121.633908 °
DWR ID	DWR_MA0007_01_s_2016_2				
Comment Code					
Inspector Comment					
2011 - The toe of the levee has been excavated by the land owner. Small holes throughout the site have been filled with a plaster like substance. Large canal on landside slope and over the levee toe. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: FHR_47-5_R]					

No Photos

LM Start	1.82	Rating **	A/W	Issue No.	62
LM End	2.53	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.335774 °	39.345322 °
				-121.633888 °	-121.629603 °
DWR ID	DWR_MA0007_01_f_2016_62				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
This section of levee has been brought back to design elevation but still needs the aggregate base placed.					

Photo 1 of 1 : FA\_2016\_MA0007\_200\_62\_20160912\_00120.jpg



View of levee that has been brought back to design elevation but still needs the aggregate base placed. Looking downstream.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Feather River	Right	11.90	09/07/2016 09/08/2016	Sterling York

LM Start	2.53	Rating **	A/W	Issue No.	61
LM End	3.33	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.345322°	39.354627°
				-121.629604°	-121.635530°
DWR ID	DWR_MA0007_01_f_2016_61				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
This section of levee is currently under construction and has been degraded and is being brought back to design elevation.					

Photo 1 of 1 : FA\_2016\_MA0007\_200\_61\_20160912\_00119.jpg



View of the levee that is currently under construction and has been degraded and is being brought back to design elevation, looking downstream.

LM Start	2.82	Rating **	C	Issue No.	65
LM End	2.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.349309 °	39.349309 °
				-121.630374 °	-121.630374 °
DWR ID	DWR_MA0007_01_s_2016_65				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
The slope has been corrected with the new construction and photo removed.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Feather River	Right	11.90	09/07/2016 09/08/2016	Sterling York

LM Start	3.32	Rating **	A/W	Issue No.	60
LM End	4.29	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.354596 °	39.365418 °
				-121.635404 °	-121.646539 °
DWR ID	DWR_MA0007_01_f _ 2016_60				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
This section of levee has been brought back to design elevation but still needs the aggregate base placed.					

Photo 1 of 1 : FA\_2016\_MA0007\_200\_60\_20160912\_00118.jpg



View of levee that has been brought back to design elevation but still needs the aggregate base placed. Looking down stream.

LM Start	4.16	Rating **	C	Issue No.	63
LM End	4.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.363852°	39.363852°
				-121.645149°	-121.645149°
DWR ID	DWR_MA0007_01_s_2016_63				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
The slope has been corrected with the new construction.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	09/07/2016 09/08/2016	Sterling York

LM Start	4.39	Rating **	M	Issue No.	6
LM End	4.46	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.366726 °	39.367606 °
				-121.647217 °	-121.647866 °
DWR ID	DWR_MA0007_01_s_2016_6				
Comment Code					
Inspector Comment					
2012 - Oversteepened slope with failing rock (from repair completed in 1954). Likely slope stability issues. 2015: Site is part of the extended inventory, last inspected 2011. [2015 Site ID: FHR_50-9_R]					

No Photos

LM Start	7.00	Rating **	A/W	Issue No.	54
LM End	7.90	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.392205 °	39.401297 °
				-121.627899 °	-121.630883 °
DWR ID	DWR_MA0007_01_f_2016_54				
Comment Code					
C2 : Repair depressions or ruts in the crown or slope.					
Inspector Comment					
This portion of the levee is currently under construction and has been degraded and is being brought back to design elevation.					

Photo 1 of 1 : FA\_2016\_MA0007\_200\_54\_20160912\_00114.jpg



View of this portion of the levee that is currently under construction that has been degraded and is being brought back to design elevation.

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable  N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Feather River	Right	11.90	09/07/2016 09/08/2016	Sterling York

LM Start	7.54	Rating **	C	Issue No.	59
LM End	7.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.396185 °	39.396185 °
				-121.629857 °	-121.629857 °
DWR ID	DWR_MA0007_01_s _ 2016_59				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Slope Stability has been corrected with the new construction.					

No Photos

LM Start	7.59	Rating **	C	Issue No.	58
LM End	7.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.396768 °	39.396768 °
				-121.630039 °	-121.630039 °
DWR ID	DWR_MA0007_01_s _ 2016_58				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Slope Stability has been corrected with the new construction.					

No Photos

LM Start	7.65	Rating **	C	Issue No.	57
LM End	7.65	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.397706 °	39.397706 °
				-121.630337 °	-121.630337 °
DWR ID	DWR_MA0007_01_s _ 2016_57				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
Slope Stability has been corrected with the new construction.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Unit No. 01 Feather River	Right	11.90	09/07/2016 09/08/2016	Sterling York

LM Start	9.06	Rating **	A/W	Issue No.	47
LM End	10.53	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.411263 °	39.426682 °
				-121.634730 °	-121.639426 °
DWR ID	DWR_MA0007_01_s_2016_47				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					
This portion of the levee is currently under construction and has been degraded and is being brought back to design elevation.					

Photo 1 of 1 : FA\_2016\_MA0007\_200\_47\_20160912\_00113.jpg



View of the portion of levee that is currently under construction that has been degraded and is being brought back to design elevation.

LM Start	9.16	Rating **	C	Issue No.	56
LM End	9.16	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.412707 °	39.412707 °
				-121.634651 °	-121.634651 °
DWR ID	DWR_MA0007_01_s_2016_56				
Comment Code					
C3 : Add appropriate gravel or road base. Grade and compact.					
Inspector Comment					
This portion of the levee crown has been brought back to the design elevation during the construction phase.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Feather River	Right	11.90	09/07/2016 09/08/2016	Sterling York

LM Start	9.67	Rating **	C	Issue No.	53
LM End	9.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.416594 °	39.416594 °
				-121.634758 °	-121.634758 °
DWR ID	DWR_MA0007_01_s _ 2016_53				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					
The slope has been corrected with the new construction.					

No Photos

LM Start	11.15	Rating **	C	Issue No.	46
LM End	11.15	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			39.432582 °	39.432582 °
				-121.645546 °	-121.645546 °
DWR ID	DWR_MA0007_01_s _ 2016_46				
Comment Code					
C1 : Add appropriate material and re-grade the levee to bring the crown above the design elevation.					
Inspector Comment					
This portion of the levee crown has been brought back to the design elevation during the construction phase, and the old photo has been removed.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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